

Virtual Storage Console, VASA Provider, and Storage Replication Adapter 7.2.1 Quick Start Guide

Virtual Storage Console (VSC) for VMware vSphere is a single vCenter Server plug-in that is bundled with VASA Provider and Storage Replication Adapter (SRA) extensions. VSC is recommended for all ONTAP vSphere environments as it configures ESXi host settings and provisions ONTAP storage using best practices. The VASA Provider is required for virtual volume (VVol) support, and SRA works together with VMware Site Recovery Manager.

Preparing for installation

You deploy the plug-in as a virtual appliance, which reduces your effort of installing and registering each product separately with the vCenter Server.

Deployment requirements

The virtual appliance for VSC, VASA Provider, and SRA can be deployed either on a Windows vCenter Server or on a VMware vCenter Server Virtual Appliance (vCSA). You must not deploy the virtual appliance for VSC, VASA Provider, and SRA on a client system.

Space and host requirements

System	Minimum requirements
Operating System	Linux server (64-bit)
RAM	4 GB
Space	<ul style="list-style-type: none">• 2.1 GB for thin provisioned installations• 54.0 GB for thick provisioned installations
Host sizing	<ul style="list-style-type: none">• Recommended memory: 12 GB• Recommended CPUs: 2
VMware ESXi (formerly ESX)	ESXi 6.5 or later

License requirements

License	Description
SnapMirror	(optional) Required for performing failover operations for SRA.
FlexClone	(optional) Required for performing test failover operations for SRA and for VVol operations of VASA Provider.

Additional requirements

Default port number	Description
9083	When enabled, both VASA Provider and SRA use this port to communicate with the vCenter Server. This port is also required for obtaining the TCP/IP settings.
443	Depending on how you have configured your credentials, the VMware vCenter Server and the storage systems listen for secure communications on this port.
8143	VSC listens for secure communications on this port.

Storage and applications	Minimum requirements
ONTAP	ONTAP 9.1, 9.3, 9.4, or 9.5
VMware vSphere, Site Recovery Manager (SRM), plug-in applications and databases	See Interoperability Matrix Tool (IMT)

Virtual appliance for VSC, VASA Provider, and SRA requirements

You must have:

- Configured and set up your vCenter Server environment.
- Downloaded the .ova file.
- The login credentials for your vCenter Server instance.
- Logged out of and closed all of the browser sessions of vSphere Web Client, and deleted the browser cache to avoid any browser cache issue during the deployment of the virtual appliance for VSC, VASA Provider, and SRA.
- Configured the default gateway to be used by the virtual appliance to respond to ICMP pings.
- Downloaded the .msi file for the SRA plug-in only if you want to configure the Site Recovery Manager (SRM) disaster recovery solution.
- Downloaded and installed OnCommand API Services if you want to view the VASA Provider for ONTAP dashboard.

Optional requirements for VASA Provider and SRA

You must have:

- Downloaded the .msi file for the SRA plug-in only if you want to configure the Site Recovery Manager (SRM) disaster recovery solution.
- Downloaded and installed OnCommand API Services if you want to view the VASA Provider for ONTAP dashboard.

Deploying the virtual appliance for VSC, VASA Provider, and SRA

1. Download the .ova file from the [NetApp support site](#) to your vCenter server machine to deploy the virtual appliance for VSC, VASA Provider, and SRA.
You must deploy the .ova file on both the source and destination sites.
2. Log in to the vSphere Web Client, select **Home > Host & Clusters**.
3. Right-click the required datacenter, and then click **Deploy OVA template**.
4. You can either enter the URL for the .ova file or browse to the folder where the .ova file is saved, and then click **Next**.
5. Enter the required details to complete the deployment.
You can view the progress of the deployment from the Tasks tab, and wait for deployment to complete.
6. Right-click the deployed virtual appliance for VSC, VASA Provider, and SRA, and then click **Install VMware tools**.

Installing SRA plug-in on SRM server

1. Download the .msi installer for the SRA plug-in from the [NetApp support site](#).
2. Double-click the downloaded .msi installer for the SRA plug-in and follow the on-screen instructions.
3. Enter the IP address and password of your deployed virtual appliance to complete the installation of the SRA plug-in on the SRM server.

Logging in to virtual appliance for VSC, VASA Provider, and SRA and enabling VASA Provider and SRA

1. Log in to the vSphere web client by using the IP address that you specified during deployment.
2. Click the Virtual Storage Console icon, and enter the username and password specified during deployment, click **Sign In**.
3. In the left pane of VSC, click **Configuration > Manage Extensions**, and select the extensions you want to enable.
4. Enter the IP address of the virtual appliance for VSC, VASA Provider, and SRA and the administrator password, and then click **Apply**.

You can refer to the *Virtual Storage Console, VASA Provider, and Storage Replication Adapter for VMware vSphere Deployment and Setup Guide* for details on additional configuration, adding storage systems, and setting up role-based access control for your vSphere objects.

Where to find additional information

- [Virtual Storage Console, VASA Provider, and Storage Replication Adapter for VMware vSphere Resources page](#)
- [Virtual Storage Console, VASA Provider, and Storage Replication Adapter for VMware vSphere Documentation](#)
- [Oncommand API Services installation information](#)
- [RBAC User Creator Tool](#)